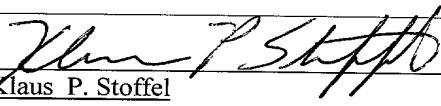


FORM PTO-1390 (REV 10-94)		U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		DOCKET #: 4595-17PUS
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371				
				U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 09/806005
INTERNATIONAL APPLICATION NO PCT/DE99/02602		INTERNATIONAL FILING DATE August 19, 1999		PRIORITY DATE CLAIMED September 23, 1998
TITLE OF INVENTION Valve Magnet				
APPLICANT(S) FOR DO/EO/US Dieter MAISCH;				
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:				
<ol style="list-style-type: none"> <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371 <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1). <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) <ul style="list-style-type: none"> a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> has been transmitted by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US) <input checked="" type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)). <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) <ul style="list-style-type: none"> a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau). b. <input type="checkbox"/> have been transmitted by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). <input checked="" type="checkbox"/> An EXECUTED oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). <input type="checkbox"/> A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). 				
Items 11. to 16. Below concern other document(s) or information included: <ol style="list-style-type: none"> <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. <input checked="" type="checkbox"/> A FIRST preliminary amendment. <ul style="list-style-type: none"> <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. <input type="checkbox"/> A substitute specification. <input type="checkbox"/> A change of power of attorney and/or address letter. <input checked="" type="checkbox"/> Other items or information (<i>specify</i>): PCT Publication Sheet, Int'l Preliminary Examination Report, Int'l Search Report, PCT Request, Notification Concerning Submission or Transmittal of Priority Document, Information Concerning Elected Offices Notified of Their Election, Notification of Receipt of Record Copy, Int'l Prel. Search Report with Notification re Same 				

U.S. APPLICATION NO. (If known, see 37 C.F.R. 1.5) 09/806005	INTERNATIONAL APPLICATION NO PCT/DE99/02602	ATTORNEY'S DOCKET NUMBER 4595-17PUS
17. [x] The following fees are submitted:		
Basic National Fee (37 CFR 1.492(a)(1)-(5)):		
Search Report has been prepared by the EPO or JPO \$860.00		
International preliminary examination fee paid to USPTO (37 CFR 1.482)..... \$690.00		
No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) \$710.00		
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO \$1000.00		
International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4)..... \$100.00		
ENTER APPROPRIATE BASIC FEE AMOUNT = \$860		
Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)). \$		
Claims	Number Filed	Number Extra
Total Claims	1- 20 =	0
Independent Claims	1 - 3 =	0
Multiple dependent claim(s) (if applicable)		+ \$270.00
TOTAL OF ABOVE CALCULATIONS = \$860		
Reduction of $\frac{1}{2}$ for filing by small entity, if applicable. \$		
SUBTOTAL = \$860		
Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). \$		
TOTAL NATIONAL FEE = \$860		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by the appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$		
TOTAL FEES ENCLOSED \$860		
		Amount to be refunded: \$
		charged: \$
a. [x] One check in the amount of <u>\$860</u> to cover the above fees is/are enclosed. b. <input type="checkbox"/> Please charge my Deposit Account No. <u>03-2412</u> in the amount of <u>\$ _____</u> to cover the above fees. A duplicate copy of this sheet is enclosed. c. [x] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>03-2412</u> . A duplicate copy of this sheet is enclosed.		
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.		
SEND ALL CORRESPONDENCE TO: <u>Klaus P. Stoffel</u> Cohen, Pontani, Lieberman & Pavane 551 Fifth Avenue, Suite 1210 New York, New York 10176		 <u>Klaus P. Stoffel</u> Registration Number: 31,668 Tel: (212) 687-2770

09/806005

JC08 Rec'd PCT/PTO 23 MAR 2001

By Express Mail # EL 834972130 US · March 23, 2001

Attorney Docket # 4595-17PUS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re National Phase PCT Application of

Dieter MAISCH et al.

International Appln. No.: PCT/DE99/02602

International Filing Date: August 19, 1999

For: Valve Magnet

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents

Washington, D.C. 20231

BOX PCT

SIR:

Prior to the issuance of a first Office Action and simultaneously with the filing of the present application, please amend said application as follows:

In the Specification:

Page 1, after line 1 insert --BACKGROUND OF THE INVENTION--;

the paragraph starting at line 5:

Such valve solenoids have long been known and are evident, for example, from the German utility model 90 03 343 or from the US patent No. 5,138,292.

Page 2, after line 9 insert --SUMMARY OF THE INVENTION--;

the paragraphs starting at line 10:

The object of the invention is to provide an explosionproof valve solenoid that can easily be manufactured at low cost while satisfying the ignition protection type "pressure-resistant encapsulation" in the region where external cables are connected.

This object is achieved according to the invention, in a valve solenoid of the type described above, in that the coil and the iron circuit are embedded in a casting compound introduced into a housing part, which casting compound prevents an explosive atmosphere reaching live parts and is simultaneously used for fixing purposes and electrical insulation (cast encapsulation). Connecting elements of the coil are arranged in a housing part which withstands internal pressure in the case of an explosion and prevents transmission of the explosion to the environment (pressure-resistant encapsulation).

Page 3, the paragraph starting at line 21:

Further advantages and features of the invention are the subject matter of the following description and of the drawing representation of an embodiment of the invention.

after line 24 insert --BRIEF DESCRIPTION OF THE DRAWING--.

Page 4, after line 4 insert --DETAILED DESCRIPTION OF THE
PREFERRED EMBODIMENTS--.

Page 5, the paragraph starting at line 1:

The housing part 11 is closed at its end by a cap 17. This engages, by means of a protrusion 17a on it, in an end-face opening 18 in the housing in such a way that a predetermined length of the protrusion 17a overlaps the opening 18, which is complementary to the protrusion 17a, so as to form a gap between the protrusion 17a and the opening 18 which is secure against ignition penetration. In addition, a seal 60 can be provided which, in the assembled state, is arranged between the cap 17 and the housing 10.

after line 20 insert the following:

Thus, while there have been shown and described and pointed out fundamental novel features of the present invention as applied to a preferred embodiment thereof, it will be understood that various omissions and substitutions and changes in the form and details of the devices illustrated, and in their operation, may be made by those skilled in the art without departing from the spirit of the present invention. For example, it is expressly intended that all combinations of those elements and/or method steps which perform substantially the same function in substantially the same way to achieve the same results are within the scope of the invention. Substitutions of elements from one described embodiment to another are also fully intended and contemplated. It is also to be understood that the drawings are not necessarily drawn to scale but that they are merely conceptual in nature. It is the intention, therefore, to be limited only as indicated by the scope of the claims appended hereto.

In the Claims:

Please cancel claim 1 and add the following new claim:

2. A valve solenoid comprising: a housing having two parts and which can be employed in areas endangered by explosion; a coil; an iron circuit, the coil and the iron circuit being arranged in the housing; and a casting compound introduced into a first part of the housing so as to embed the coil and the iron circuit whereby the casting compound prevents an explosive atmosphere from reaching live parts and simultaneously fixes the coil and iron circuitry and provides electrical insulation, the coil having connecting elements arranged in a second housing part which is configured to resist explosion pressure in case of an internal explosion and prevents transmission of the explosion to the environment thereby providing pressure-resistant encapsulation.

IN THE ABSTRACT:

Please add the attached abstract to the end of the application.

REMARKS

The present amendment is submitted prior to the issuance of a first Office Action and simultaneously with the filing of the present application.

With this amendment applicants have amended the specification, cancelled claim 1 and added new claim 2, all in an effort to place the application in better condition for examination.

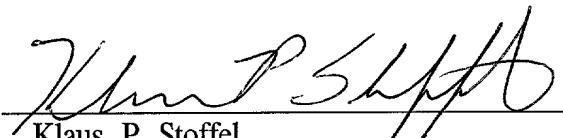
Favorable action on the present application is respectfully requested.

Any additional fees or charges required at this time in connection with the application may be charged to our Patent and Trademark Office Deposit Account No. 03-2412.

Respectfully submitted,

COHEN, PONTANI, LIEBERMAN & PAVANE

By:



Klaus P. Stoffel

Reg. No. 31,668

551 Fifth Avenue, Suite 1210

New York, N.Y. 10176

(212) 687-2770

23 March 2001

IN THE SPECIFICATION:

Page 1, starting at line 5:

Such valve solenoids have long been known and are evident, for example, from the German utility model 90 03 343 or from the US patent [specification] No. 5,138,292.

Page 2, starting at line 10:

The object of the invention is to [develop] provide an explosionproof valve solenoid [of this generic type in such a way] that [it] can easily be manufactured at low cost while satisfying the ignition protection type "pressure-resistant encapsulation" in the region where external cables are connected.

This object is achieved according to the invention, in a valve solenoid of the type described [at the beginning] above, in that the coil and the iron circuit are embedded in a casting compound introduced into a housing part, which casting compound prevents an explosive atmosphere reaching live parts and is simultaneously used for fixing purposes and electrical insulation (cast encapsulation)[, and in that connecting]. Connecting elements of the coil are arranged in a housing part which withstands internal pressure in the case of an explosion and prevents transmission of the explosion to the environment (pressure-resistant encapsulation).

Page 3, starting at line 21:

Further advantages and features of the invention are the subject matter of the following description and of the drawing representation of an embodiment [example] of the invention.

Page 5, starting at line 1:

The housing part 11 is closed at its end by a cap 17. This engages, by means of a protrusion 17a on it, in an end-face opening 18 in the housing in such a way that a predetermined length of the protrusion 17a overlaps the opening 18, which is complementary to the protrusion 17a, so as to form a gap between the protrusion 17a and the opening 18 which is [proof] secure against ignition penetration. In addition, a seal 60 can be provided which, in the assembled state, is arranged between the cap 17 and the housing 10.

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JCOS Rec'd PCT/PTO 23 MAR 2001

Valve solenoid

The invention relates to a valve solenoid comprising a coil and a an iron circuit, which are arranged in a housing which can be employed in areas endangered by explosion.

Such valve solenoids have long been known and are evident, for example, from the German utility model 90 03 343 or from the US patent specification 5,138,292.

Widely varying types of ignition protection are known. Types of ignition protection in accordance with IEC or EN (EN 50014 ff.) are: "pressure-resistant encapsulation (EExd)", "enhanced safety (EExe)", "over-pressure encapsulation (EExp)", "intrinsic

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safety (EExi)", "oil immersion (EExo)", "sand filling (EExq)" and "cast encapsulation (EExm)".

Designs for explosionproof solenoids are also known in which it is not only the "pure" ignition protection types mentioned above which are used but also combinations of these ignition protection types, such as the ignition protection types "cast encapsulation" combined with "enhanced safety" or "pressure-resistant encapsulation" combined with "increased safety".

The object of the invention is to develop an explosionproof valve solenoid of this generic type in such a way that it can easily be manufactured at low cost while satisfying the ignition protection type "pressure-resistant encapsulation" in the region where external cables are connected.

This object is achieved according to the invention, in a valve solenoid of the type described at the beginning, in that the coil and the iron circuit are embedded in a casting compound introduced into a housing part, which casting compound prevents an explosive atmosphere reaching live parts and is simultaneously used for fixing purposes and electrical insulation (cast encapsulation), and in that connecting elements of the coil are arranged in a housing part which withstands internal pressure in the case of an explosion and prevents transmission of the explosion to the environment (pressure-resistant encapsulation).

The major advantage of dividing the housing into two housing parts, one of which satisfies the "cast encapsulation" ignition protection type and the other the "pressure-resistant encapsulation" ignition protection type is that the coil and the iron circuit, in particular the solenoid enclosure sleeve, are not part of the pressure-resistant area. This housing part does not therefore require complicated fitting procedures, which are necessary in the case of pressure-resistant encapsulations because of the fact that the gaps must not allow ignition penetration. The physical size of the solenoid can, in addition, be reduced by the avoidance of such gaps, which must have a specified minimum length.

In addition to its ease of manufacture, such valve solenoids also have the advantage that cast encapsulated coils and iron circuits or solenoid enclosure sleeves are available as standard parts with the result that stockholdings are reduced. Nevertheless, the external cables can be connected in a pressure-resistant, encapsulated area arranged in the second housing part.

Further advantages and features of the invention are the subject matter of the following description and of the drawing representation of an embodiment example of the invention.

In the drawing:

Fig. 1 shows a valve solenoid according to the invention in an exploded view and

Fig. 2 shows a sectional view of the valve solenoid, according to the invention, shown in Fig. 1.

A valve solenoid, which is shown in Fig. 1 and Fig. 2, comprises a housing 10, which is subdivided into two housing parts 11, 12.

A coil 30 and a iron circuit 31 are embedded in a casting compound 20 in the housing part 12, which satisfies the "cast encapsulation, EExm" ignition protection type. The coil has a through-opening 32 for holding an armature, by means of which a valve can be actuated, in a manner known per se, in an environment endangered by explosion. Electrical connecting elements 41, which protrude beyond the casting compound 20 which seals the housing part 12 at its end, are also embedded in the casting compound 20. The casting compound 20 is used to exclude an explosive atmosphere as well as for fixing purposes and electrical insulation.

These connecting elements 41 for the connection of electrical cables for activating the coil 30 are arranged in the other housing part 11, which satisfies the "pressure-resistant encapsulation" ignition protection type. External cables are introduced by means of an opening 14 into the interior area of the pressure-resistant encapsulated housing part 11.

The housing part 11 is closed at its end by a cap 17. This engages, by means of a protrusion 17a on it, in an end-face opening 18 in the housing in such a way that a predetermined length of the protrusion 17a overlaps the opening 18, which is complementary to the protrusion 17a, so as to form a gap between the protrusion 17a and the opening 18 which is proof against ignition penetration. In addition, a seal 60 can be provided which, in the assembled state, is arranged between the cap 17 and the housing 10.

The housing part 11 is configured in such a way that it resists a pressure, which is standardized, in the case of an explosion of an explosive mixture within it and transmission of the explosion to the vicinity of the housing 10 is prevented.

The advantage of the valve solenoid described above is that the cast encapsulation of the housing part 12, and therefore an explosion-protected valve solenoid which satisfies the combined ignition protection type EExmd (cast encapsulation and pressure-resistant encapsulation), can be manufactured in a simple manner and therefore at low cost.

IMI Norgren-Herion Fluidtronic GmbH & Co. KG,
70736 Fellbach

Claim

A valve solenoid comprising a coil (30) and a an iron circuit (31), which are arranged in a housing (10) which can be employed in areas endangered by explosion, wherein the coil (30) and the iron circuit (31) are embedded in a casting compound (20) introduced into a housing part, which casting compound prevents an explosive atmosphere reaching live parts and is simultaneously used for fixing purposes and electrical insulation (cast encapsulation), and wherein connecting elements (41) of the coil (30) are arranged in a housing part (11) which resists pressure in the case of an explosion on the inside and prevents transmission of the explosion to the environment (pressure-resistant encapsulation).

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ABSTRACT

A valve solenoid including a housing having two parts and which can be employed in areas endangered by explosion, a coil, an iron circuit, the coil and the iron circuit being arranged in the housing, and a casting compound introduced into a first part of the housing so as to embed the coil and the iron circuit whereby the casting compound prevents an explosive atmosphere from reaching live parts and simultaneously fixes the coil and iron circuitry and provides electrical insulation. The coil has connecting elements arranged in the second housing part which is configured to resist pressure in case of an internal explosion and prevents transmission of the explosion to the environment thereby providing pressure-resistant encapsulation.

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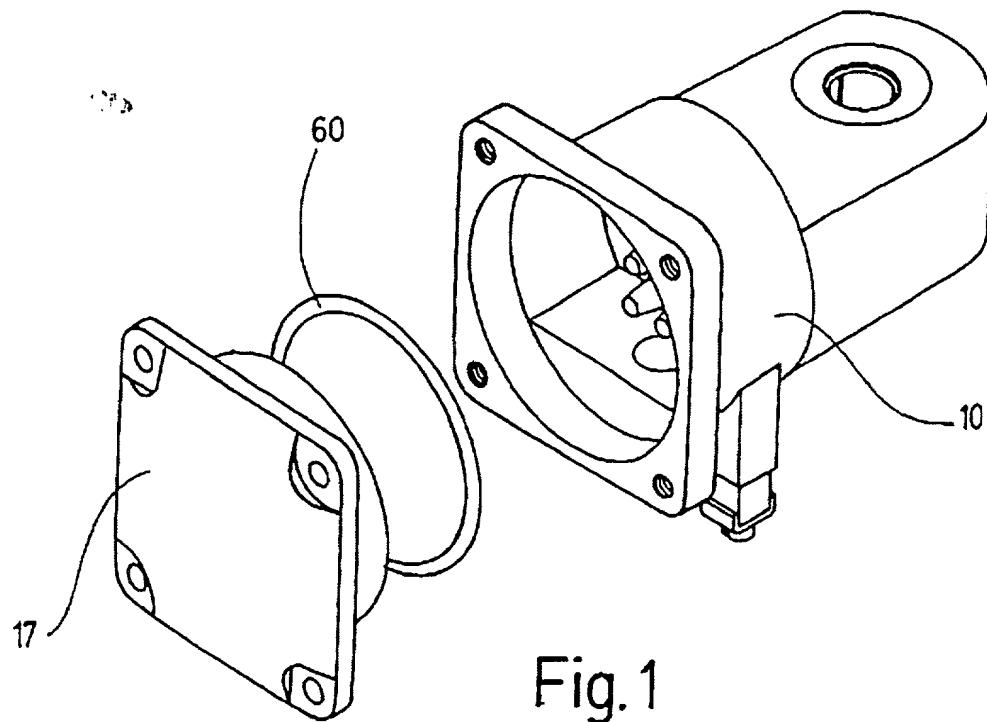


Fig. 1

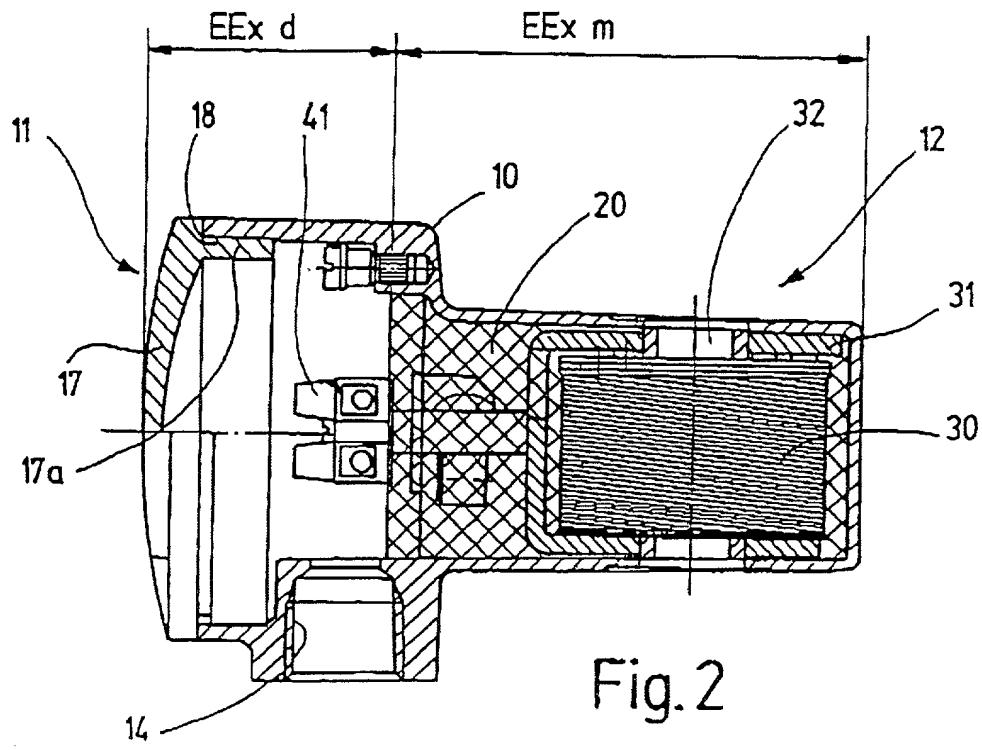


Fig. 2

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY
Includes Reference to PCT International Applications

Attorney's Docket
No. 4595-17PUS

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

VALVE MAGNET

the specification of which (check only one item below)

is attached hereto

was filed as United States application

Serial No.

On

And was amended

On (if applicable).

was filed as PCT international application

Number PCT/DE99/02602

On August 19, 1999

And was amended under PCT Article 19

On (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of the application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

PRIOR FOREIGN/PCT APPLICATIONS AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. 119:

Country (if PCT, indicate "PCT")	Application Number	Date of Filing (day, month, year)	Priority Claimed Under 35 U.S.C. 119	
Germany	198 43 519.3	September 23, 1998	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
PCT	PCT/DE99/02602	August 19, 1999	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> YES	<input type="checkbox"/> NO
			<input type="checkbox"/> YES	<input type="checkbox"/> NO

Combined Declaration for Patent Application and Power of Attorney (Continued)
(Includes Reference to PCT International Applications)

Attorney's Docket No.
4595-17PUS

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application:

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 U.S.C. 120:

U.S. APPLICATIONS		STATUS (check one)		
U.S. APPLICATION NUMBER	U.S. FILING DATE	PATENTED	PENDING	ABANDONED
PCT APPLICATIONS DESIGNATING THE U.S.				
PCT APPLICATION NO.	PCT FILING DATE	U.S. SERIAL NUMBERS ASSIGNED (if any)		
PCT/DE99/02602	August 19, 1999		X	

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith (List name and registration number)

17
MYRON COHEN, Reg. No. 17,358; THOMAS C. PONTANI, Reg. No. 29,763; LANCE J. LIEBERMAN, Reg. No. 28,437; MARTIN B. PAVANE, Reg. No. 28,337; MICHAEL C. STUART, Reg. No. 35,698; KLAUS P. STOFFEL, Reg. No. 31,668; EDWARD M. WEISZ, Reg. No. 37,257; JULIA S. KIM, Reg. No. 36,567; VINCENT M. FAZZARI, Reg. No. 26,879; ALFRED W. FROEBRICH, Reg. No. 38,887; KENT H. CHENG, Reg. No. 33,849; GEORGE WANG, Reg. No. 41,419; TZVI HIRSHAUT, Reg. No. 38,732; GERALD J. CECHONY, Reg. No. 31,335; ROGER S. THOMPSON, Reg. No. 29,594; JOY I. FARBER, Reg. No. 44,103; and GEORGE J. BRANDT, JR., Reg. No. 22,021

Send correspondence to:
Klaus P. Stoffel
Reg. No. 31,668
Cohen, Pontani, Lieberman & Pavane
551 Fifth Avenue, Suite 1210
New York, New York 10176

Direct Telephone calls to:
(name and telephone number)
Klaus P. Stoffel
(212) 687-2770

2 0 1	FULL NAME OF INVENTOR	FAMILY NAME <u>MAISCH</u>	FIRST GIVEN NAME <u>Dieter</u>	SECOND GIVEN NAME
	RESIDENCE, CITIZENSHIP	CITY <u>Fellbach</u>	STATE OR FOREIGN COUNTRY <u>Germany</u>	COUNTRY OF CITIZENSHIP <u>Germany</u>
	POST OFFICE ADDRESS	POST OFFICE ADDRESS <u>Esslinger strasse 146</u>	CITY <u>Fellbach</u>	STATE & ZIP CODE/COUNTRY <u>Germany D-70734</u>
2 0 2	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE, CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY

Combined Declaration for Patent Application and Power of Attorney (Continued) (Includes Reference to PCT International Applications)				Attorney's Docket No. 4595-17PUS
2 0 3	FULL NAME OF INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
	RESIDENCE, CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

SIGNATURE OF INVENTOR 201 <i>Dieter Maisch</i>	SIGNATURE OF INVENTOR 202	SIGNATURE OF INVENTOR 203
DATE 02/09/01	DATE	DATE